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NOTICE OF ALLOWANCE AND FEE(S) DUE

22434

7590

09/17/2008

BEYER WEAVER LLP P.O. BOX 70250 OAKLAND, CA 94612-0250 EXAMINER

HALIYUR, VENKATESH N

ART UNIT PAPER NUMBER

2619 DATE MAILED: 09/17/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/691,419	10/17/2000	Gordon MacKay	CISCP261	4308

TITLE OF INVENTION: METHOD AND APPARATUS TO DETECT AND BREAK LOOP CONFIGURATION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$0	\$0	\$1440	12/17/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450

Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

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maintenance fee notifications. Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22434 7590 09/17/2008 Certificate of Mailing or Transmission BEYER WEAVER LLP I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. P.O. BOX 70250 OAKLAND, CA 94612-0250 (Depositor's name (Signature (Date APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/691,419 10/17/2000 CISCP261 4308 Gordon MacKay TITLE OF INVENTION: METHOD AND APPARATUS TO DETECT AND BREAK LOOP CONFIGURATION APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1440 \$0 \$0 \$1440 12/17/2008 **EXAMINER** ART UNIT CLASS-SUBCLASS HALIYUR, VENKATESH N 2619 370-254000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number ______ (enclose an extra copy of this fo Advance Order - # of Copies _ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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22434 7	590 09/17/2008		EXAM	IINER
BEYER WEAVER LLP		HALIYUR, VENKATESH N		
P.O. BOX 70250			ART UNIT	PAPER NUMBER
OAKLAND, CA 94612-0250			2619	
			DATE MAILED: 09/17/2008	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1612 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1612 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)	
	 09/691,419	MACKAY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	 VENKATESH HALIYUR	2619	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the c (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject to	orrespondence address plication. If not included n will be mailed in due course. THIS	
1. This communication is responsive to <u>RCE filed on 07/03/2</u>	<u>2008</u> .		
2. The allowed claim(s) is/are <u>22-28,33-39 and 44</u> .			
 3. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents 	been received. been received in Application No		
International Bureau (PCT Rule 17.2(a)).			
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			
. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.			
(a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.			
each sheet. Replacement sheet(s) should be labeled as such in t			
6. DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal F	Patent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amendı	te ment/Comment	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme	ent of Reasons for Allowance	
	о. <u>П</u> ощог		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Kevin M. Donnelly (Reg No: 61,643) on 03/25/2008.

The application has been amended as follows:

In claims:

a. Following claims have been amended to recite as below:

Claim 22: A method for handling a communication in a network of nodes, each node having an associated identification that is unique from other identifications in the network of nodes, the method comprising:

receiving, at a first node, a communication from a second node, wherein the communication includes an identification;

determining, at the first node, whether the identification included in the communication is closer to, equidistant from, or further from a

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predetermined identification value than an <u>identification</u> associated with the first node;

if the identification included in the communication is closer to the predetermined <u>identification</u> value than the identification associated with the first node, sending, from the first node to a third node, a communication including the <u>identification that was included in the communication received from the second node associated with the first node;</u>

if the identification included in the communication is further from the predetermined <u>identification</u> value than the identification associated with the first node, sending, from the first node to a third node, a communication including the identification <u>associated with the first node</u> that was included in the communication received from the second node; and

if the identification included in the communication is equidistant from the predetermined <u>identification</u> value as the identification associated with the first node, concluding that a loop exists in the network <u>and appointing</u> a node as a master loop breaker.

Claim 33: An apparatus for handling a communication in a network of nodes, each node having an associated identification that is unique from other identifications in the network of nodes, the apparatus

comprising:

one or more components to configured to:

receive, at a first node, a communication from a second node, wherein the communication includes an identification;

determine, at the first node, whether the identification included in the communication is closer to, equidistant from, or further from a predetermined <u>identification</u> value than an identification associated with the first node;

if the identification included in the communication is closer to the predetermined <u>identification</u> value than the identification associated with the first node, send, from the first node to a third node, a communication including the identification <u>that was included in the communication</u> received from the second node <u>associated with the first node</u>;

if the identification included in the communication is further from the predetermined <u>identification</u> value than the identification associated with the first node, send, from the first node to a third node, a communication including the identification <u>associated with the first node</u> that was included in the communication received from the second node; and

if the identification included in the communication is equidistant from the predetermined <u>identification</u> value as the identification associated with the first node, conclude that a loop exists in the network <u>and appoint a node as a master loop breaker</u>.

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Claim 44: An apparatus for handling a communication in a network of nodes, each node having an associated identification that is unique from other identifications in the network of nodes, the method comprising:

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means for receiving, at a first node, a communication from a second node, wherein the communication includes an identification;

means for determining, at the first node, whether the identification included in the communication is closer to, equidistant from, or further from a predetermined <u>identification</u> value than an identification associated with the first node:

means for:

if the identification included in the communication is closer to the predetermined <u>identification</u> value than the identification associated with the first node, sending, from the first node to a third node, a communication including the identification <u>that was included in the communication received from the second node associated with the first node;</u>

if the identification included in the communication is further from the predetermined <u>identification</u> value than the identification associated with the first node, sending, from the first node to a third node, a communication including the identification <u>associated with</u> the first node that was included in the communication received from

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the second node; and

if the identification included in the communication is equidistant from the predetermined <u>identification</u> value as the identification associated with the first node, concluding that a loop exists in the network <u>and appointing a node as a master loop</u> breaker.

b. Following claims have been canceled:

Claim: 29-32 (Canceled).

Claim: 40-43 (Canceled).

2. The following is an examiner's statement of reasons for allowance:

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G.
 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened

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pursuant to 37 CFR 1.114. Applicant's submission filed on 07/03/2008 has been entered.

- The information disclosure statement (IDS) submitted on 07/03/2008 was considered by the examiner.
- 3. Claims 22-28, 33-39, 44 are allowed over prior art. Claims 1-21, 29-32, 40-43 are canceled.
 - The prior art fails to teach or fairly suggest the following limitations recited in independent claims 22, 33, 44 for method, apparatus and means,

"if the identification included in the communication is closer to the predetermined identification value than the identification associated with the first node, sending, from the first node to a third node, a communication including the identification that was included in the communication received from the second node;

if the identification included in the communication is further from the predetermined identification value than the identification associated with the first node, sending, from the first node to a third node, a communication including the identification associated with the first node; and

if the identification included in the communication is equidistant from the predetermined identification value as the identification associated with

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the first node, concluding that a loop exists in the network and appointing a node as a master loop breaker."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Venkatesh Haliyur whose telephone number is 571-272-8616. The examiner can normally be reached on Monday thru Friday 8:30AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edan Orgad can be reached on 571-272-7884. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained

from the Patent Application Information Retrieval (PAIR) system. Status

information for published applications may be obtained from either Private

PAIR or Public PAIR. Status information for unpublished applications is

available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on

access to the Private PAIR system, contact the Electronic Business Center

(EBC) at 866-217-9197 (toll-free).

/Venkatesh Haliyur/

Examiner, Art Unit 2619

/Edan Orgad/

Supervisory Patent Examiner, Art Unit 2619